

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/01146

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B60S1/40, B60S1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B60S1/00-1/68Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
ECLA, ICO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | JP 2001-501893 A (Robert Bosch GmbH.), 13 February, 2001 (13.02.01), Full text; Fig. 3 & DE 19731683 A1 & WO 99/05009 A1 | 1 |
| A | JP 63-079256 Y2 (Mazda Motor Corp.), 25 May, 1988 (25.05.88), Full text; Fig. 4 (Family: none) | 1 |
| A | JP 09-164917 A (Asmo Co., Ltd.), 24 June, 1997 (24.06.97), Full text; Fig. 3 (Family: none) | 1 |

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

| | |
|---|--|
| * Special categories of cited documents: | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
18 March, 2003 (18.03.03)Date of mailing of the international search report
01 April, 2003 (01.04.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/01146

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | DE 19824365 A1 (Bayerische Motoren Werke AG), 02 December, 1999 (02.12.99), Full text; Figs. 2 to 5 (Family: none) | 1 |
| A | DE 3744237 A1 (SWF Auto-Electric GmbH), 06 July, 1989 (06.07.89), Full text; Fig. 3 (Family: none) | 1 |
| A | DE 19605428 A1 (Bayerische Motoren Werke AG), 21 August, 1997 (21.08.97), Full text; Fig. 2 (Family: none) | 1 |
| A | DE 3829343 A1 (SWF Auto-Electric GmbH), 01 March, 1990 (01.03.90), Full text (Family: none) | 1 |